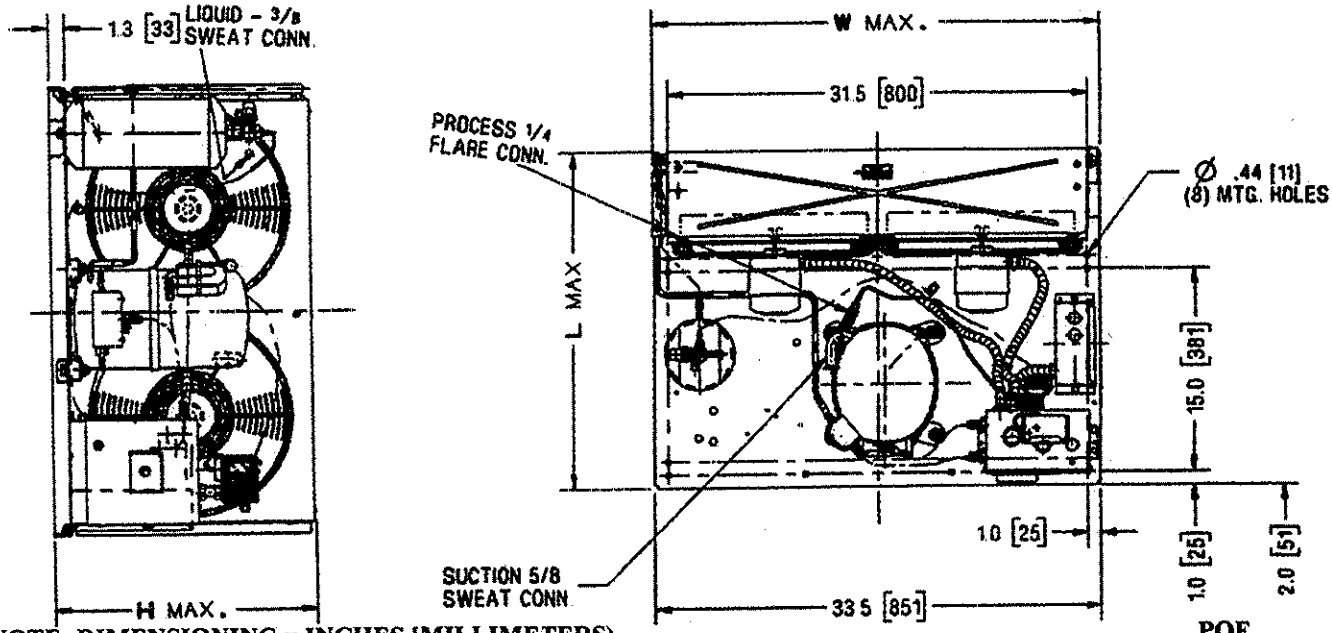
AWA2490ZXDXC

Jan 10, 1999

Revision 2003

TECUMSEH HERMETIC CONDENSING UNITS

MODEL AWA2490ZXDXC (B/M 2C2111-9) R-404A 2 1/4 HP AIR COOLED



NOTE: DIMENSIONING = INCHES [MILLIMETERS]

POE

Model	Dimensions				*Line Connection		Pumpdown 90 ° F 90% Full	Air CFM	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.				
AWA2490ZXDXC	25.0	33.6	19.5	13.2	5/8S	3/8"	11.7#	1800	38	119

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - MUST BE EVACUATED 60 HZ PERFORMANCE

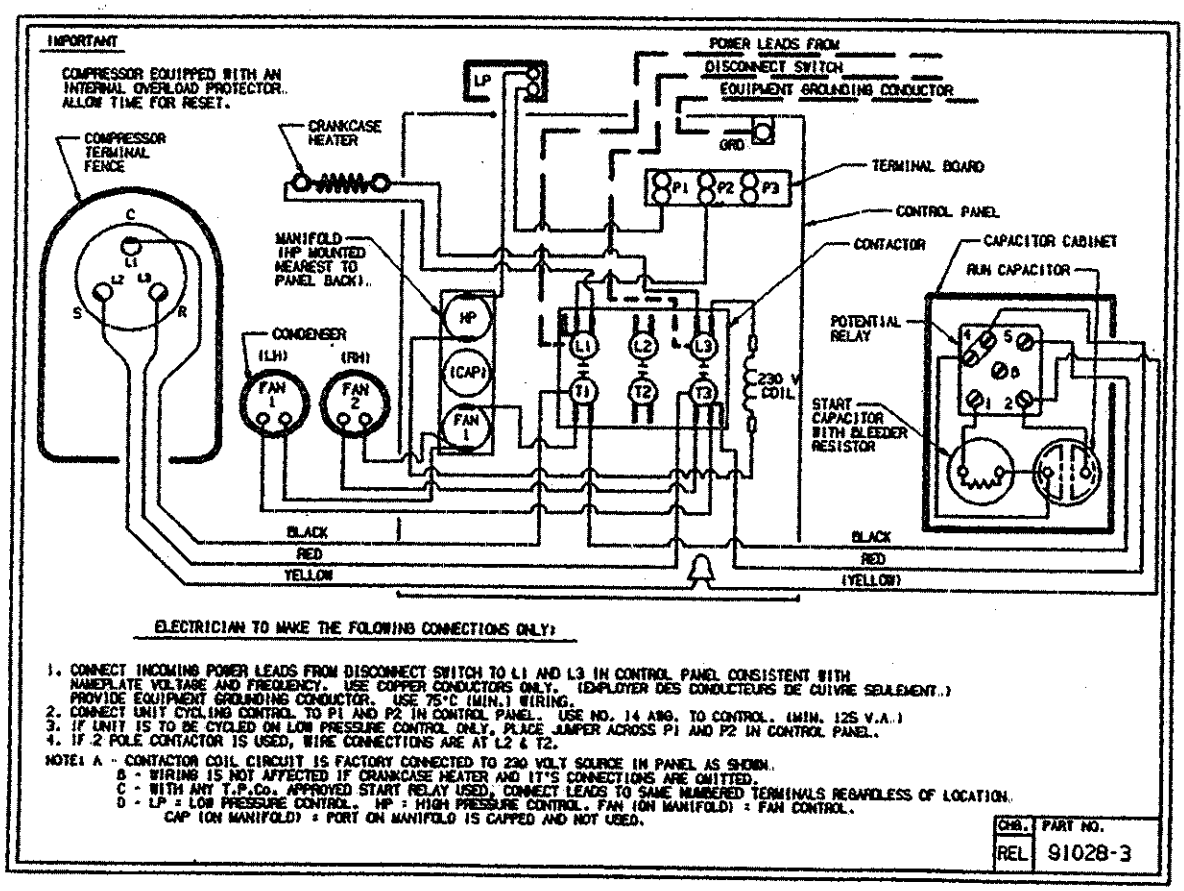
Approved Evap. Range		Ambient								
		90° F			100° F			110° F		
°F	PSIG	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head
-30	9.6	4098	1492	226	3565	1468	263			
-25	12.6	5212	1650	231	4420	1622	267	3571	1558	300
-20	16.0	6365	1807	235	5344	1778	271	4348	1723	305
-15	19.6	7558	1963	241	6336	1936	275	5199	1891	311
-10	23.6	8790	2118	247	7396	2097	281	6123	2061	317
-5	27.9	10061	2271	253	8525	2261	287	7120	2234	323
0	32.6	11372	2423	259	9721	2427	293	8190	2409	330
+5	37.7	12722	2573	266	10986	2595	301	9334	2587	337
+10	43.2	14112	2722	274	12319	2767	309	10552	2767	345

Return gas temp. 45° F, 5 ° F subcooling

Date: January 2003
Unit Catalog Update

SPECIFICATIONS	**AWA2490ZXDXC**
Nominal Voltage	230/208-1
Unit B/M	2C2111-9
Voltage Range	253 to 187
Min. Circuit Ampacity	18.4
Max. Fuse Size (Amps)	30
Compressor Model	**AWA2460ZXD**
Comp. Bill of Material	AW613ET-099
RLA/LRA	12.6/86.0
ESP Overload	Internal
ESP Relay	P82965
Capacitor Cabinet	AE1397-006
Control Panel	AC1390-10
Start Capacitor	85PS330D17
Rating	145-175MFD/330V
Run Capacitor	85PR370F21/P85E76
Rating	45MFD/370V
Fan Switch (s)	84096-1
High Pressure Switch	84095-2

Control	84026-5 (LP)
Contactor	91014 (30 AMP-3PH,230V)
Fan Motor (OEM)	810S050A99
Fan RLA	1.30 RLA
Replacement Motor	TFM502
Fan Motor Bracket	Grd. Mnt.
Fan Blade	51568-1 (2 req)
Shroud	70648-2
Condenser	K42-15
Fan Guard	70831 (2 req)
Receiver Tank	51081-1
Receiver Tank Valve	31581-1 (3/8" S) RL
O' Ring Gasket	30334
Process Valve	31583-1 (1/4"F PV)
Optional Outdoor Enclosure	TP-241D
Crankcase Heater (If Inc)	NA
Unit Drawing	SU1918-9
Schematic or Elect. Drawing	91028-3


IMPORTANT
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
COMPRESSOR TERMINAL FENCE
CRANKCASE HEATER
LP
GRD
TERMINAL BOARD
P1 P2 P3
CONTROL PANEL
CONTACTOR
CAPACITOR CABINET
RUN CAPACITOR
MANIFOLD (HP MOUNTED NEAREST TO PANEL BACK).
CONDENSER
(LH) (RH)
FAN 1
FAN 2
HP
(CAP)
FAN 1
L1 L2 L3
T1 T2 T3
230 V COIL
POTENTIAL RELAY
START CAPACITOR WITH BLEEDER RESISTOR
BLACK
RED
YELLOW
BLACK
RED
(YELLOW)
ELECTRICIAN TO MAKE THE FOLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 AND L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 12S V.A.)
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
4. IF 2 POLE CONTACTOR IS USED, WIRE CONNECTIONS ARE AT L2 & T2.
NOTE: A - CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 VOLT SOURCE IN PANEL AS SHOWN.
B - WIRING IS NOT AFFECTED IF CRANKCASE HEATER AND IT'S CONNECTIONS ARE OMITTED.
C - WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
D - LP = LOW PRESSURE CONTROL. HP = HIGH PRESSURE CONTROL. FAN (ON MANIFOLD) = FAN CONTROL. CAP (ON MANIFOLD) = PORT ON MANIFOLD IS CAPPED AND NOT USED.
CHG. PART NO.
REL 91028-3

Some parts listed may be optional or listed as replacement parts.